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(54) HIGH FREQUENCY DIELECTRIC MATERIAL

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a high dielectric constant and a low dielectric loss in a high frequency, and improve moisture resistance and stability of dielectric characteristics with the lapse of time in addition to workability by containing a carbon fluoride in a high frequency dielectric material.

SOLUTION: Dispersion by dispersing a carbon fluoride by water a surface active agent is added to dispersion of resin or rubber, and an inorganic fiber base material such as glass fiber is impregnated into a mixed liquid by being uniformly mixed, and it is dried. This is superposed in a plurality on each other, and they are compressively molded under heating, and a plate-like high frequency dielectric material is obtained. A high frequency dielectric material of various shapes is obtained by properly molding a compound obtained by kneading a carbon fluoride and resin under heating. This high frequency dielectric material can be not only effectively used as a high frequency wiring material but also can be effectively used as a high frequency circuit element, a high frequency antenna element and a material for a dielectric lens antenna.